

DOCUMENT RESUME

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ABSTRACT

This profile is designed as a recording sheet for monitoring an individual student's progress throughout the school year. Sixth grade assessment materials and the "Strategies for Instruction in Mathematics" suggest tasks and questions that can be used for on-going and summative assessment. Directions for use and descriptions of levels of performance are presented. (ASK)

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Mathematics

Sixth Grade

Observation Profile for On-Going Assessment and End of the Year Evaluation

This profile is designed as a recording sheet for monitoring an individual student's progress throughout the school year. The *Strategies for Instruction in Mathematics* suggests tasks and questions that can be used for on-going and summative assessment.

Directions for use:

The four main mathematical goals and the specific objectives from the North Carolina *Standard Course of Study* are clustered on this profile according to "big ideas." There are six boxes for recording a student's performance level (1, 2, 3, or 4) at each grading period as some school systems have six grading periods, while others have four grading periods. Teachers will use only the boxes needed. The hexagon beside each "big idea" is for the teacher's summative evaluation and will be filled in at the end of the year.

It is suggested that teachers record an evaluation (performance level) for each objective that is taught during a particular grading period; it is not necessary to record an evaluation for objectives that have not been addressed. Student work, conversations with the student, and observations provide evidence for the evaluation of performance. Evaluations are based on the student's abilities to explain, model, and apply learning. Student work folders (or portfolios) will support the evaluation.

Sixth Grade Observation Profile for On-Going Assessment and End of the Year Evaluation

Number Sense, Numeration, and Numerical Operations - Spatial Sense, Measurement, and Geometry - Patterns, Relationships, and Functions - Data, Probability, and Statistics	
Descriptions of levels of Performance	Using number relationships 
Level IV (Exceeds expectations) • consistent performance beyond grade level • works independently • understands advanced concepts • applies strategies creatively • analyzes and synthesizes • shows confidence and initiative • justifies and elaborates responses • makes critical judgments • makes applications and extensions beyond grade level; applies Level III competencies in more challenging situations	<p>1.01 Read, write and make models of numbers including percents and exponentials. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.02 Relate fractions, decimals, and percents. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.03 Compare and order fractions, decimals, and percents. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.04 Solve problems using prime factorization, common factors and common multiples. Explain solutions. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.13 Translate word problems into number sentences and solve. Explain solutions. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.14 Analyze problem situations, determine if there is sufficient information to solve the problem, identify missing or extraneous data, select appropriate strategies, and use an organized approach to solve multi-step problems; use calculators when appropriate. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Level III (Proficient) • exhibits consistent performance • shows conceptual understanding • applies strategies in most situations • responds with appropriate answer or procedure • completes tasks accurately • needs minimal assistance • exhibits fluency and applies learning • shows some flexibility in thinking • works with confidence • recognizes cause and effect • applies, models, and explains concepts	<p>1.05 Multiply and divide fractions, mixed numbers, and decimals using models and pictures; record solution. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.06 Add and subtract fractions and mixed numbers, fractions and mixed numbers with unlike denominators. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.07 Use the order of operations to simplify numerical expressions with parentheses and exponents. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.11 Compare and order integers. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Level II (Not yet proficient) • exhibits inconsistent performance and misunderstandings at times • shows some evidence of conceptual understanding • has difficulty applying strategies or completing tasks in unfamiliar situations • responds with appropriate answer or procedure sometimes • requires teacher guidance frequently • needs additional time, opportunities • demonstrates some Level III competencies but is inconsistent!	<p>1.08 Solve problems using alternate exterior, corresponding and vertical angles. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.09 Use models and pictures to relate concepts of ratio, proportion, and percent; record results. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.10 Use models and pictures to demonstrate understanding of integers. Record results. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.12 Use models to develop formulas for finding areas of triangles, parallelograms and circles. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Level I (Limited performance) • exhibits minimal performance • shows very limited evidence of conceptual understanding and use of strategies • responds with inappropriate answer until/or procedure frequently • very often displays misunderstandings • completes task appropriately and accurately infrequently • needs assistance, guidance and modified instruction	<p>1.13 Model the concept of volume for rectangular solids as the product of the area of the base and the height. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>1.14 Construct congruent segments, congruent angles, bisectors of line segments and bisectors of angles. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Solving problems	<p>1.01 Use estimation and mental math to solve problems with fractions, decimals, and percents; explain solution. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Applying geometric concepts	<p>1.02 Construct congruent segments, congruent angles, bisectors of line segments and bisectors of angles. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
Algebraic thinking	<p>1.03 Describe, extend and write rules for a variety of patterns. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
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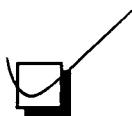


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